

STN SEARCH TRANSCRIPT

10/604,777

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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	4	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7	MAR 02	GBFULL: New full-text patent database on STN
NEWS	8	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	11	MAR 22	Original IDE display (format returns to REGISTRY/ZREGISTRY
NEWS	12	MAR 22	PATDPASPC - New patent database available
NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS	16	APR 18	New CAS Information Use Policies available online
NEWS	17	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	18	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:34:58 ON 29 APR 2005

=> FILE RE

'RE' IS AN AMBIGUOUS FILE OR CLUSTER NAME

REACTION - Reactions Cluster

RESEARCH - Research Cluster

REGISTRY - The CAS Registry File of substances

ENTER FILE OR CLUSTER NAME (IGNORE):REG

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:35:27 ON 29 APR 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 APR 2005 HIGHEST RN 849459-72-9

DICTIONARY FILE UPDATES: 28 APR 2005 HIGHEST RN 849459-72-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

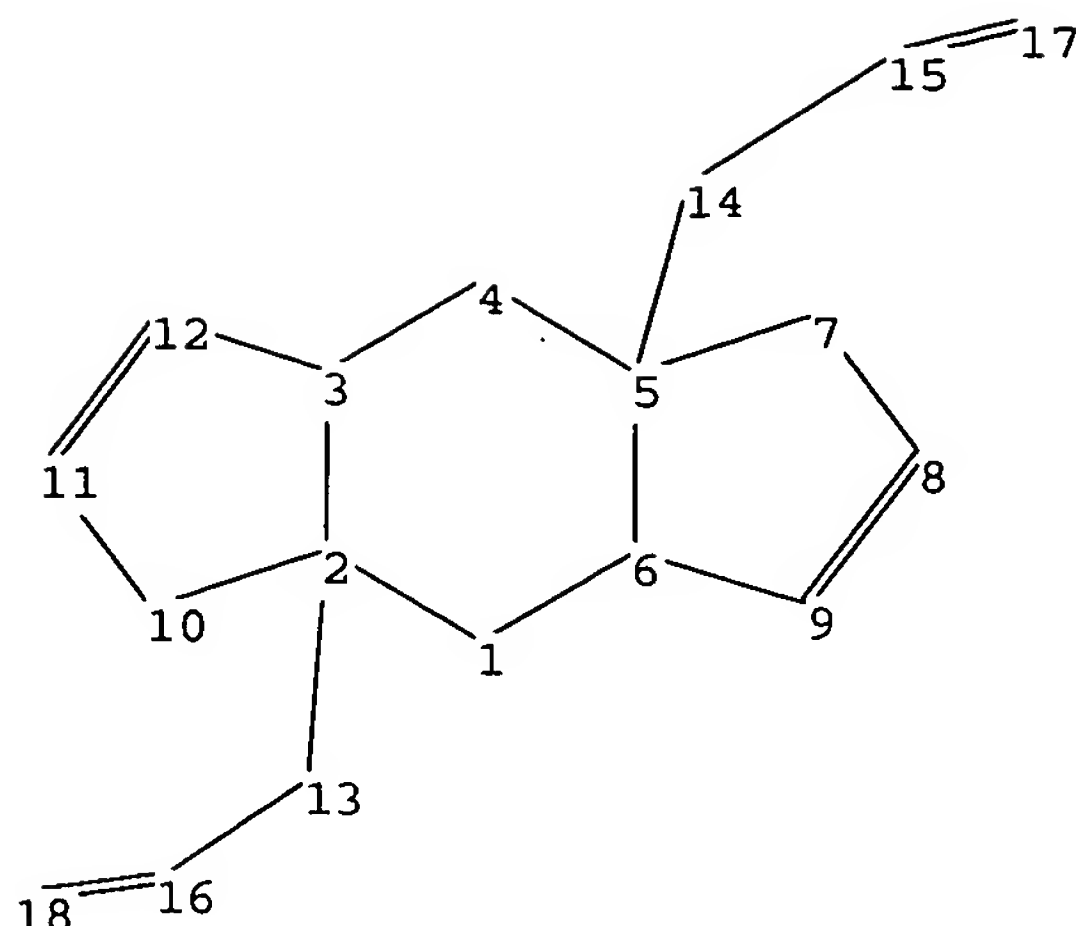
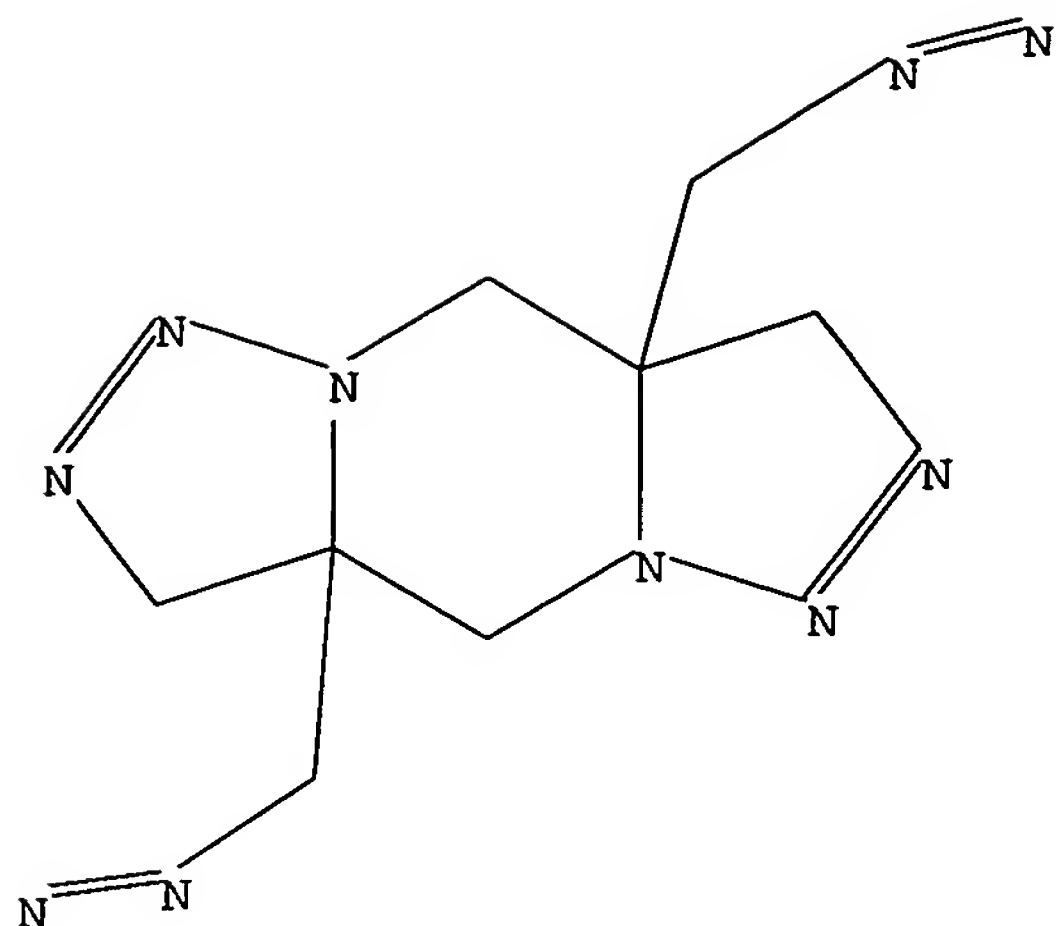
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\Program Files\Stnexp\Queries\ENERGETIC TRIAZOLOPYRAZINE.str



chain nodes :
 13 14 15 16 17 18
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 12
 chain bonds :
 2-13 5-14 13-16 14-15 15-17 16-18
 ring bonds :
 1-2 1-6 2-3 2-10 3-4 3-12 4-5 5-6 5-7 6-9 7-8 8-9 10-11 11-12
 exact/norm bonds :
 1-2 1-6 2-3 2-10 3-4 3-12 4-5 5-6 5-7 6-9 7-8 8-9 10-11 11-12 13-16
 14-15 15-17 16-18
 exact bonds :
 2-13 5-14

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

L1 STRUCTURE UPLOADED

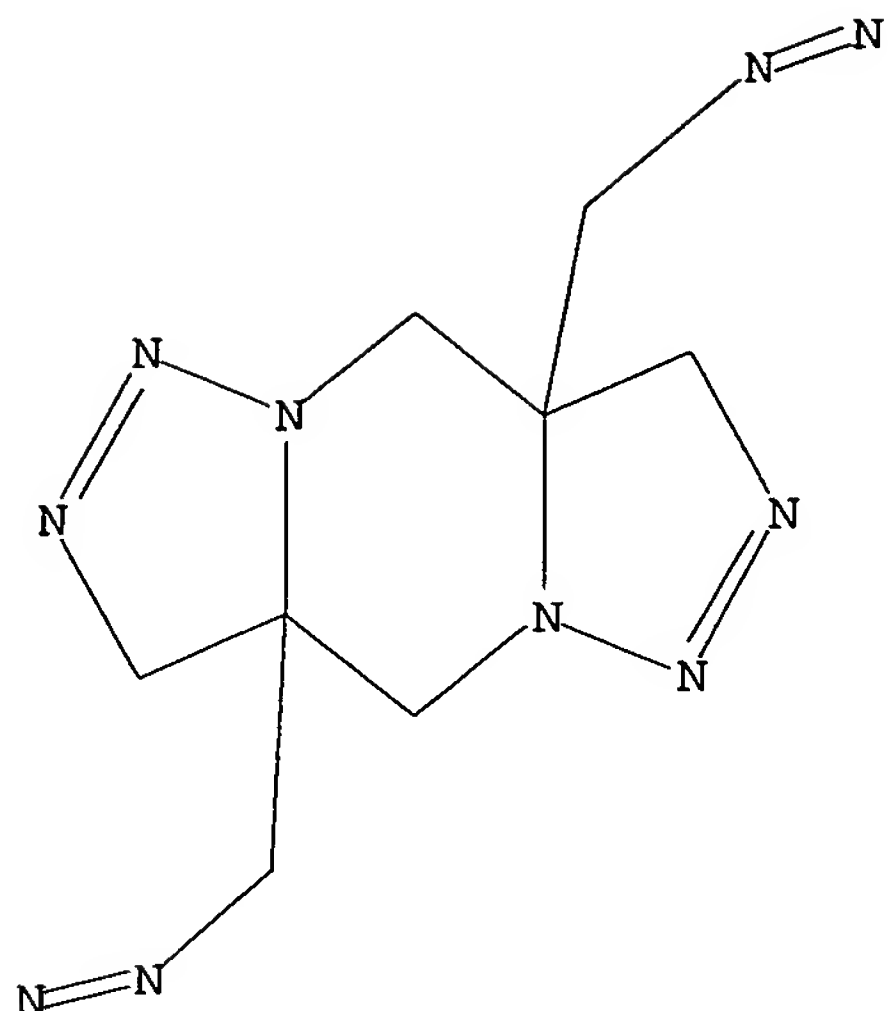
=> que L1

L2 QUE L1

=> D L2

L2 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.
 L2 QUE ABB=ON PLU=ON L1

=> S L2 SSS FULL
 FULL SEARCH INITIATED 14:35:45 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 1 ANSWERS
 SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1

=> FILE CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 14:35:48 ON 29 APR 2005
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FILE COVERS 1907 - 29 Apr 2005 VOL 142 ISS 19
 FILE LAST UPDATED: 28 Apr 2005 (20050428/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3
L4 2 L3

=> FILE CAPLUS
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	161.99

FILE 'CAPLUS' ENTERED AT 14:35:54 ON 29 APR 2005
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FILE COVERS 1907 - 29 Apr 2005 VOL 142 ISS 19
FILE LAST UPDATED: 28 Apr 2005 (20050428/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

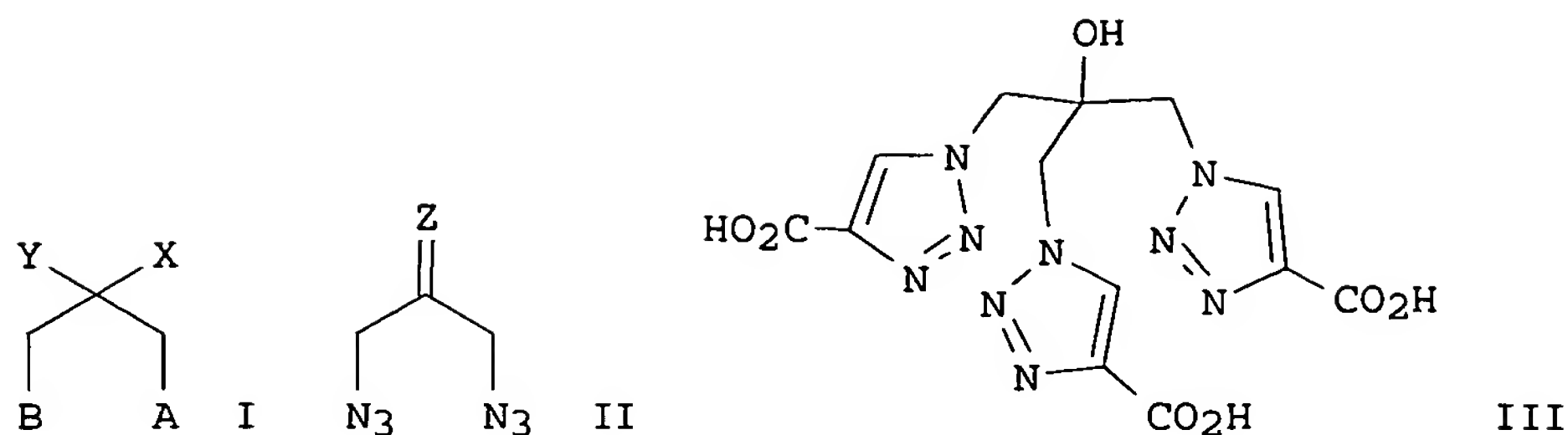
=> S L4
L5 2 L3

=> D 1-2 IBIB ABS HITSTR

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:29032 CAPLUS
DOCUMENT NUMBER: 142:114074
TITLE: Preparation of polyazido carboxylic acid esters
INVENTOR(S): Dave, Paritosh R.; Duddu, Raja G.; Damavarapu, Reddy; Gelber, Nathaniel; Yang, Kathy; Surapaneni, C. Rao
PATENT ASSIGNEE(S): United States Dept. of the Army, USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6841690	B1	20050111	US 2003-604778	20030815
PRIORITY APPLN. INFO.:			US 2002-319801P	P 20021219

GI



AB This invention relates to a series of novel compds., such as I [X = N₃, OH, ONO₂, NO₂; Y = CH₂N₃, NO₂; A, B = N₃, 4-carboxytriazolomethyl], and II [Z = CH₂, O, NOH, 2,4-dihydrophenylhydrozono], including 2-azido-2-azidomethyl-1,3-diazidopropane, 2-azidomethyl-2-hydroxy-1,3-diazidopropane, 2-azidomethyl-2-nitrato-1,3-diazidopropane, 2-azidomethyl-2-nitro-1,3-diazidopropane, 2,2-dinitro-1,3-diazidopropane, methallyldiazide, a dimer of methallyldiazide, comprising 3a,8a-bis-azidomethyl-3a,4,8a,9-tetrahydro-3H,8H-bis[1,2,3]triazolo[1,5-a;1'',5''-d]pyrazine, 1,3-diazidoacetone, and 2-oximido-1,3-diazidopropane. Also shown are reaction intermediates of these compds., including 2,2-bis(chloromethyl)oxirane, and 2,2-bis(azidomethyl)oxirane. In addition, a number of potentially useful energetic compds. have been prepared from the low mol. weight polyazido compds. above, including N-2(azido-1-azidomethyl-ethylidene)-N''-(2,4-dinitrophenyl)-hydrazine (7-DNPH), 1,3-bis(4-carboxytriazolyl)2,2-dinitropropane, tris(4-carboxytriazolomethyl)methanol, benzene-1,3,5-tricarboxylic acid tris(2-azido-1,1-bisazidomethyl-ethyl)ester, adamantane 1,3,5,7-tetracarboxylic acid tetrakis(2-azido-1,1-bisazidomethyl-ethyl)ester, adamantane carboxylic acid (2-azido-1,1-bisazidomethyl-ethyl)ester, cubane 1,3,5,7-tetracarboxylic acid tetrakis(2-azido-1,1-bisazidomethyl-ethyl)ester, cubane 1,4-dicarboxylic acid bis(2-azido-1,1-bisazidomethyl-ethyl)ester. Thus, tris(4-carboxytriazolomethyl)methanol (III) was prepared by the reaction of 2-azidomethyl-2-hydroxy-1,3-diazidopropane I [A, B = N₃; X = CH₂N₃; Y = OH] (also prepared) with propiolic acid.

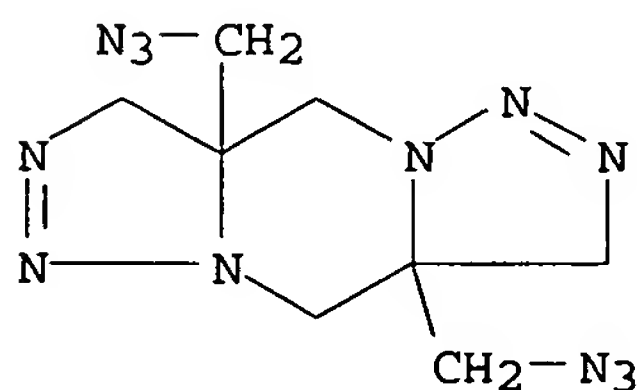
IT **481067-67-8P**, 3a,8a-Bis-azidomethyl-3a,4,8a,9-tetrahydro-3H,8H-bis[1,2,3]triazolo[1,5-a;1'',5''-d]pyrazine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of polyazido carboxylic acid esters derived from methallyl dichloride)

RN 481067-67-8 CAPLUS

CN 3H,8H-Bis[1,2,3]triazolo[1,5-a:1'',5''-d]pyrazine, 3a,8a-bis(azidomethyl)-3a,4,8a,9-tetrahydro- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

6

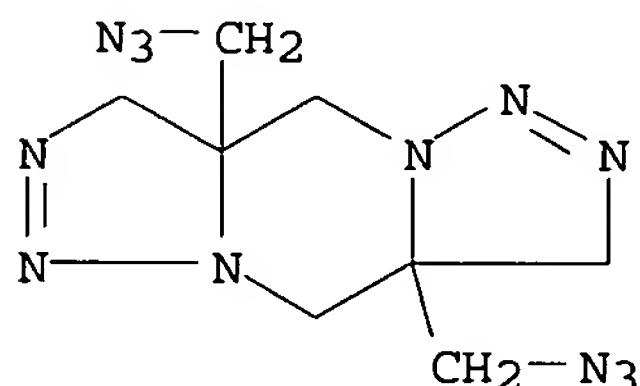
THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:605702 CAPLUS

DOCUMENT NUMBER: 138:75615

TITLE: Novel polyazido/polynitrato compounds derived from methallyl dichloride
 AUTHOR(S): Surapaneni, Rao; Damavarapu, Reddy; Duddu, Raja; Dave, Paritosh R.; Gilardi, Richard D.
 CORPORATE SOURCE: US Army Armament Research Development and Engineering Center, Picatinny Arsenal, NJ, 07806-5000, USA
 SOURCE: International Annual Conference of ICT (2002), 33rd(Energetic Materials), 147/1-147/5
 CODEN: IACIEQ; ISSN: 0722-4087
 PUBLISHER: Fraunhofer-Institut fuer Chemische Technologie
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Several polynitrato and polyazido compds., derived from a lower homolog of pentaerythritol and have one less methylene unit, were synthesized in order to develop lead-free primary explosives. The compds. were derived from methallyl dichloride by such reactions as epoxidn., nucleophilic substitution, and ring-opening nitration. Nitration. These compds. are of potential interest as energetic plasticizers and their multiple functional groups can be exploited to prepare novel dendritic structures.
 IT **481067-67-8P**
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (spontaneous formation and crystal structure of; novel polyazido-polynitrato compds. derived from methallyl dichloride by epoxidn., nucleophilic substitution, and ring-opening nitration)
 RN 481067-67-8 CAPLUS
 CN 3H,8H-Bis[1,2,3]triazolo[1,5-a:1',5'-d]pyrazine, 3a,8a-bis(azidomethyl)-3a,4,8a,9-tetrahydro- (9CI) (CA INDEX NAME)



=> LOGOFF

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
11.68	173.67

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.46	-1.46

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STN INTERNATIONAL LOGOFF AT 14:38:26 ON 29 APR 2005